	Application No.	Applicant(s)
Notice of Allowability	09/701,226	FUKUSHIMA, SHINJI
	Examiner	Art Unit
	Pedro J. Cuevas	2834
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. 1. 1. 1. 1. 1. 1. 1		
2. The allowed claim(s) is/are 1-5.		
3. The drawings filed on 16 September 2003 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 		
Certified copies of the priority documents have been received.		
 Certified copies of the priority documents have been received in Application No 		
 Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 		
* Certified copies not received:		
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
(a) The translation of the foreign language provisional application has been received.		
6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE		
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
8. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No (b) ☐ including changes required by the proposed drawing correction filed, which has been approved by the Examiner.		
(c) 🔲 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.		
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No Examiner's Comment Regarding Requirement for Deposit of Biological Material	4☐ Interview Sumr 6☐ Examiner's Am	nal Patent Application (PTO-152) nary (PTO-413), Paper No endment/Comment itement of Reasons for Allowance

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DETAILED ACTION

Allowable Subject Matter

- Claims 1-5 are allowed.
- The following is an examiner's statement of reasons for allowance.

Harrison et al. clearly teaches the construction of a brushless motor comprising:

a rotor with a permanent magnet having P (P is an integer not less than two) polarities, the permanent magnet polarities having a polarity angle; and

a stator facing said rotor and having a plurality of coils.

Welterlin teaches a brushless motor, wherein:

any one of the coils has isosceles sides interlinking with magnetic field generated by the polarities extension lines of the isosceles sides extending through centers of winding-bundles of the coil, crossing each other at a shaft center having a vertex angle of 360/P degree, the vertex angle being equal to the polarity angle of 360/P degrees based on the permanent magnet;

the coil winding bundles forming the isosceles sides are disposed within an area covered by an angle of 360/(4 X P) degree both inside and outside with respect to a center of the angle of 360/P degree, and

the coils adjacent to each other are spaced out at intervals of (360/P) x (5/3) degree for the purpose of obtaining a brushless, self-commutating DC motor having a tachogenerator for producing speed control signals.

The prior art of record, taken alone or in combination, fails to teach the construction of a brushless motor as described on independent claim 1, wherein the vertex angle formed by the Application/Control Number: 09/701,226

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two extension lines along centers of the winding bundles is equal to the angle formed by the two

extension lines extending along both ends of the each magnetic polarity of said rotor.

Dependent claims 2-5 are considered allowable by their dependence on allowed

independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The

examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for

the organization where this application or proceeding is assigned are (703) 305-3432 for regular

communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas October 16, 2003

Primary Examiner

Technology Center 2800